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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,897	06/28/2006	Wolfgang Hahn	3750	5071

7590 05/25/2010  
Striker, Striker & Stenby  
103 East Neck Road  
Huntington, NY 11743

EXAMINER
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BAISA, JOSELITO SASIS

ART UNIT	PAPER NUMBER
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2832

MAIL DATE	DELIVERY MODE
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05/25/2010

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/584,897	<b>Applicant(s)</b> HAHN ET AL.	
	<b>Examiner</b> JOSELITO BAISA	<b>Art Unit</b> 2832	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 June 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>6/28/06, 4/7/08 and 7/21/09</u> . | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Proise [5274904] in view of Forrs [6535100].

Proise discloses a coil for a magnetic pole for magnetic levitation vehicles having a core with a center axis and a winding (12,122) in form of a disk applied on it, the winding being formed by a conductor strip 14 wound in several layers around the core, characterized in that the conductor strip at its longitudinal rims (the width of the winding strip 14 wound around the core) placed at a distance in the direction of the center axis [Col. 4, Lines 45-65, Figure 5b].

Proise discloses the instant claimed invention discussed above except for the conductor strip is so tailor-cut that its width increases steadily from the core towards the outside until it reaches a highest value.

Forrs discloses conductor strip 110 is so tailor-cut that its width increases steadily from the core towards the outside until it reaches a highest value [Col. 7, Lines 34-42, Figures 1E and 1F].

It would have been obvious to one having ordinary skill in the art at the time of the invention to use a tailor-cut width conductor strip as taught by Forrs to the inductor of Proise.

Art Unit: 2832

The motivation would have been to suitably size winding strip to meet the required creepage distance and clearance [Col. 1, Lines 49-55, Figures 5 and 6].

Regarding claims 2 and 3, Forrs discloses that the maximum value of the width B, viewed in a longitudinal direction of the conductor strip is reached after a length that corresponds to a number of layers which is smaller than the number of layers provided in total. Forrs is concerned about the required margin, creepage distance and clearance of the winding from the core depending on the voltage class of the transformer (could take up to 10 layers) [Col. 1, Lines 49-60].

Regarding claims 4 and 5, Proise discloses that the longitudinal rims of the conductor strip (14) are mirror-symmetrically tailor-cut with respect to a longitudinal axis extending vertically (or horizontally based on the orientation of winding 12, 122 in Figure 5b) to the center axis of the conductor strip (14); the longitudinal rims are tailor-cut along straight lines [see Figure 5b].

Regarding claim 6, Proise discloses that the longitudinal rims (the width of the winding strip 14 wound around the core) are tailor-cut along continuous curves [see Figure 5].

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Proise in view of Forrs as applied to claim 1 above, and further in view of Keto et al. [3436704].

Art Unit: 2832

Proise in view of Forrs disclose the instant claimed invention discussed above except for a partially conductive foil is located between said insulation layer and a layer of said disc bordering it, said partially conductive foil resting against steps formed between said individual layers being formed by tailor-cutting of said conductor strip.

Keto discloses a partially conductive coating (foil) 26, 28 is located between insulation layer 20 and a layer of winding bordering it [Col 4, Lines 31-52].

It would have been obvious to one having ordinary skill in the art at the time of the invention to use a coating as taught by Keto to the structure of Proise in view of Forrs.

The motivation would have been to prevent forming electrical short circuit between the core and the winding [Col. 4, Lines 39-42].

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Proise in view of Forrs as applied to claim 1 above, and further in view of Dutton [3467931].

Proise in view of Forrs discloses the instant claimed invention discussed above except for the magnetic pole is at least comprised of two discs with layers formed of one conductor strip.

Dutton discloses two discs (e.g., coil 11-16) with layers formed of one conductor strip [Col. 2, Lines 55-72, Figure 1].

It would have been obvious to one having ordinary skill in the art at the time of the invention to use at least two discs (coil) as taught by Dutton to the structure of Proise in view of Forrs.

The motivation would have been to allow cooling medium to go in between the coils [Col. 1, Lines ,45-60].

Art Unit: 2832

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSELITO BAISA whose telephone number is (571)272-7132. The examiner can normally be reached on M-F 5:30 am to 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elvin G Enad/  
Supervisory Patent Examiner, Art Unit 2832

Joselito Baisa  
Examiner  
Art Unit 2832

/J. B./  
Examiner, Art Unit 2832